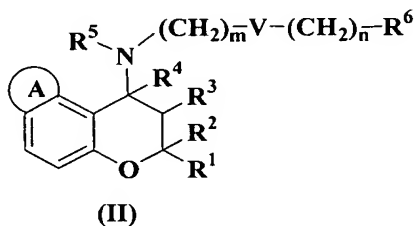
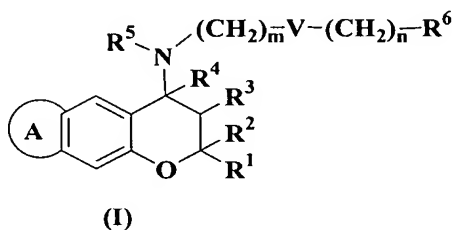


Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A benzopyran derivative of formula (I) or (II), or pharmaceutically acceptable salt thereof



wherein

R^1 and R^2 are independently of each other hydrogen atom, C_{1-6} alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, C_{1-6} alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom) or hydroxy group), or C_{6-14} aryl group (wherein the aryl group may be arbitrarily substituted with halogen atom, hydroxy group, nitro group, cyano group, C_{1-6} alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, C_{1-6} alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom) or hydroxy group) or C_{1-6} alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom));

R^3 is hydroxy group or C_{1-6} alkylcarbonyloxy group, or R^3 forms a bond together with R^4 ;

R^4 is hydrogen atom, or R^4 forms a bond together with R^3 ;

m is an integer of 0 to 4;

n is an integer of 0 to 4;

V is a single bond, CR^7R^8 wherein R^7 is

- C_{1-6} alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, hydroxy group, C_{1-6} alkoxy group (wherein the C_{1-6} alkoxy group may be arbitrarily

substituted with halogen atom), C₆₋₁₄ aryl group, C₂₋₉ heteroaryl group (wherein each of the aryl group or heteroaryl group may be arbitrarily substituted with 1 to 3 R¹⁰ wherein R¹⁰ is halogen atom; hydroxy group; C₁₋₆ alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, hydroxy group or C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom))); C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom); nitro group; cyano group; formyl group; formamide group; sulfonylamino group; sulfonyl group; amino group; C₁₋₆ alkylamino group; di-C₁₋₆ alkylamino group; C₁₋₆ alkylcarbonylamino group; C₁₋₆ alkylsulfonylamino group; aminocarbonyl group; C₁₋₆ alkylaminocarbonyl group; di-C₁₋₆ alkylaminocarbonyl group; C₁₋₆ alkylcarbonyl group; C₁₋₆ alkoxycarbonyl group; aminosulfonyl group; C₁₋₆ alkylsulfonyl group; carboxy group or C₆₋₁₄ arylcarbonyl group, and when a plurality of R¹⁰ are present, they may be identical or different from each other); C₁₋₆ alkylcarbonyloxy group; nitro group; cyano group; formyl group; formamide group; amino group; C₁₋₆ alkylamino group; di-C₁₋₆ alkylamino group; C₁₋₆ alkylcarbonylamino group; C₁₋₆ alkylsulfonylamino group; aminocarbonyl group; C₁₋₆ alkylaminocarbonyl group; di-C₁₋₆ alkylaminocarbonyl group; C₁₋₆ alkylcarbonyl group; C₁₋₆ alkoxycarbonyl group; aminosulfonyl group; C₁₋₆ alkylsulfonyl group; carboxy group or sulfonyl group;

- C₆₋₁₄ aryl group, C₂₋₉ heteroaryl group (wherein each of the aryl group or heteroaryl group may be arbitrarily substituted with 1 to 3 R¹⁰ wherein R¹⁰ has the above-mentioned meaning);

- hydroxy group;

- C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom); or

- nitro group; cyano group; formyl group; formamide group; sulfonylamino group; sulfonyl group; amino group; C₁₋₆ alkylamino group; di-C₁₋₆ alkylamino group; C₁₋₆ alkylcarbonylamino group; C₁₋₆ alkylsulfonylamino group; aminocarbonyl group; C₁₋₆

alkylaminocarbonyl group; di-C₁₋₆ alkylaminocarbonyl group; C₁₋₆ alkylcarbonyl group; C₁₋₆ alkoxycarbonyl group; aminosulfonyl group; C₁₋₆ alkylsulfonyl group; carboxy group, C₆₋₁₄ arylcarbonyl group or C₂₋₉ heteroarylcarbonyl group (wherein each of the arylcarbonyl group or heteroarylcarbonyl group may be arbitrarily substituted with 1 to 3 R¹⁰ wherein R¹⁰ has the above-mentioned meaning), and

R⁸ is

- hydrogen atom,
- C₁₋₆ alkyl group (wherein the C₁₋₆ alkyl group may be arbitrarily substituted with halogen atom, hydroxy group, C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), C₆₋₁₄ aryl group, C₂₋₉ heteroaryl group (wherein each of the aryl group or heteroaryl group may be arbitrarily substituted with 1 to 3 R¹⁷ wherein R¹⁷ has the same meaning as R¹⁰), C₁₋₆ alkylcarbonyloxy group; nitro group; cyano group; formyl group; formamide group; amino group; C₁₋₆ alkylamino group; di-C₁₋₆ alkylamino group; C₁₋₆ alkylcarbonylamino group; C₁₋₆ alkylsulfonylamino group; aminocarbonyl group; C₁₋₆ alkylaminocarbonyl group; di-C₁₋₆ alkylaminocarbonyl group; C₁₋₆ alkylcarbonyl group; C₁₋₆ alkoxycarbonyl group; aminosulfonyl group; C₁₋₆ alkylsulfonyl group; carboxy group or sulfonyl group);
- C₆₋₁₄ aryl group, C₂₋₉ heteroaryl group (wherein each of the aryl group or heteroaryl group may be arbitrarily substituted with 1 to 3 R¹⁷ wherein R¹⁷ has the same meaning as R¹⁰);
- hydroxy group;
- C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), or
- nitro group; cyano group; formyl group; formamide group; sulfonylamino group; sulfonyl group; amino group; C₁₋₆ alkylamino group; di-C₁₋₆ alkylamino group; C₁₋₆ alkylcarbonylamino group; C₁₋₆ alkylsulfonylamino group; aminocarbonyl group; C₁₋₆

alkylaminocarbonyl group; di-C₁₋₆ alkylaminocarbonyl group; C₁₋₆ alkylcarbonyl group; C₁₋₆ alkoxycarbonyl group; aminosulfonyl group; C₁₋₆ alkylsulfonyl group; carboxy group, C₆₋₁₄ arylcarbonyl group or C₂₋₉ heteroarylcarbonyl group (wherein each of the arylcarbonyl group or heteroarylcarbonyl group may be arbitrarily substituted with 1 to 3 R¹⁷ wherein R¹⁷ has the same meaning as R¹⁰), or

R⁷ together with R⁸ may represent =O or =S, or

V is NR⁹ wherein R⁹ is hydrogen atom or C₁₋₆ alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), hydroxy group, C₆₋₁₄ aryl group, C₂₋₉ heteroaryl group (wherein each of the aryl group or heteroaryl group may be arbitrarily substituted with 1 to 3 R¹⁷ wherein R¹⁷ has the same meaning as R¹⁰), C₁₋₆ alkylaminocarbonyl group, di-C₁₋₆ alkylaminocarbonyl group, C₁₋₆ alkylcarbonyl group, C₃₋₈ cycloalkylcarbonyl group, C₁₋₆ alkoxycarbonyl group, C₁₋₆ alkylsulfonyl group, carboxy group, C₆₋₁₄ arylsulfonyl group or C₂₋₉ heteroarylsulfonyl group), C₁₋₆ alkylaminocarbonyl group, di-C₁₋₆ alkylaminocarbonyl group, C₁₋₆ alkylcarbonyl group, C₃₋₈ cycloalkylcarbonyl group, C₁₋₆ alkoxycarbonyl group, C₁₋₆ alkylsulfonyl group, C₆₋₁₄ arylsulfonyl group, C₂₋₉ heteroarylsulfonyl group (wherein each of the arylsulfonyl group or heteroarylsulfonyl group may be arbitrarily substituted with 1 to 3 R¹⁷ wherein R¹⁷ has the same meaning as R¹⁰), carboxy group; C₆₋₁₄ arylcarbonyl group, C₂₋₉ heteroarylcarbonyl group (wherein each of the arylcarbonyl group or heteroarylcarbonyl group may be arbitrarily substituted with 1 to 3 R¹⁷ wherein R¹⁷ has the same meaning as R¹⁰); or O, S, SO or SO₂;

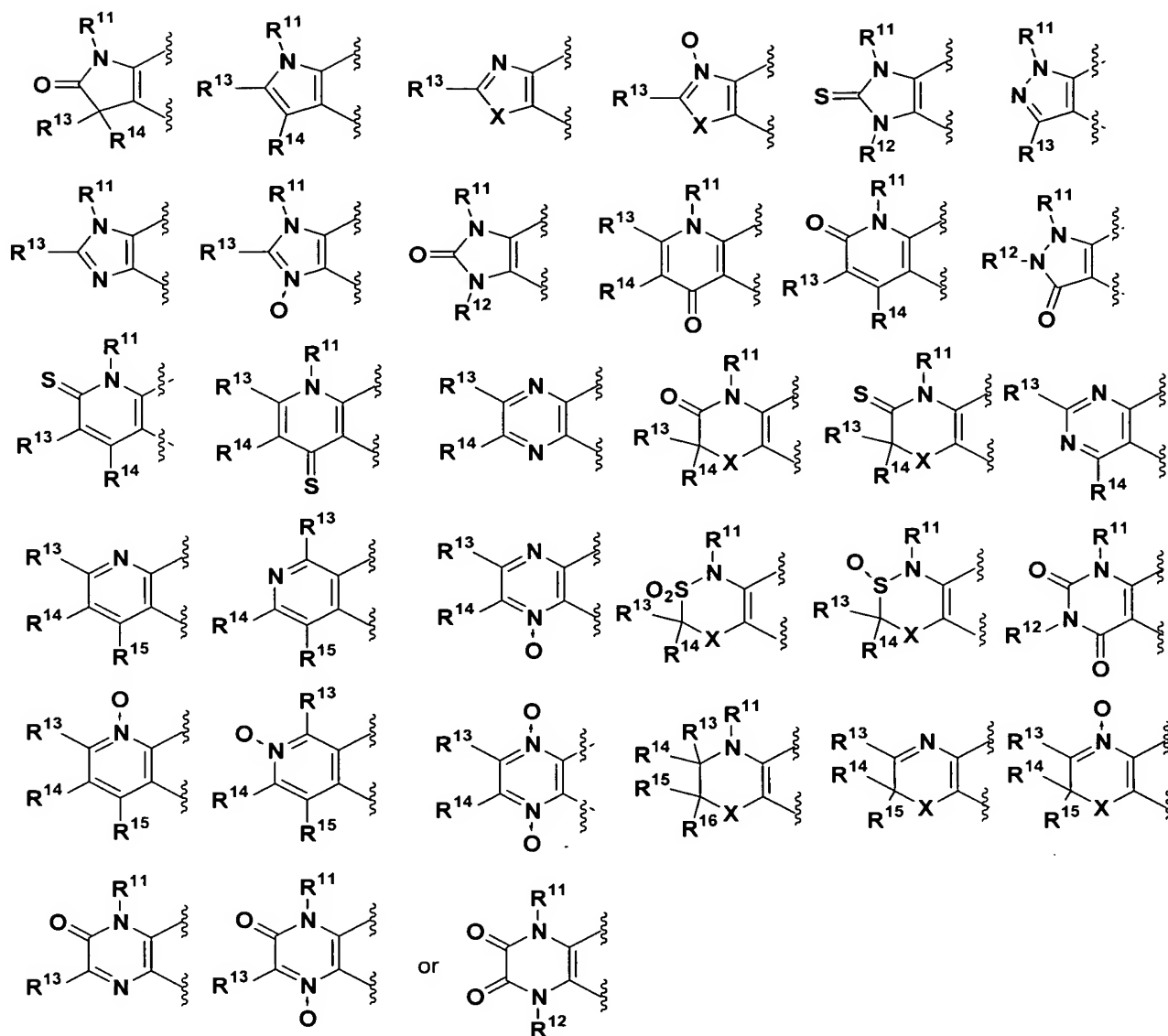
R⁵ is hydrogen atom or C₁₋₆ alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), or hydroxy group); and

R⁶ is

- hydrogen atom,
- C₁₋₆ alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), amino group, carboxy group or hydroxy group),
- C₃₋₈ cycloalkyl group, C₃₋₈ cycloalkenyl group (wherein the cycloalkyl group or cycloalkenyl group may be arbitrarily substituted with halogen atom, C₁₋₆ alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), amino group, carboxy group or hydroxy group), C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), amino, carboxy group or hydroxy group),
- amino group, C₁₋₆ alkylamino group, di-C₁₋₆ alkylamino group, C₆₋₁₄ arylamino group, C₂₋₉ heteroaryl group (wherein each of the arylamino group or heteroaryl group may be arbitrarily substituted with 1 to 3 R¹⁸ wherein R¹⁸ has the same meaning as R¹⁰;
- C₆₋₁₄ aryl group, C₂₋₉ heteroaryl group (wherein each of the aryl group or heteroaryl group may be arbitrarily substituted with 1 to 3 R¹⁸ wherein R¹⁸ has the same meaning as R¹⁰; or
- C₂₋₉ heterocyclyl group (wherein the heterocyclyl group may be arbitrarily substituted with halogen atom, C₁₋₆ alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), amino group, carboxy group or hydroxy group), C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), C₆₋₁₄ aryl group, C₂₋₉ heteroaryl group (wherein each of the aryl group or heteroaryl group may be arbitrarily substituted with 1 to 3 R¹⁸ wherein R¹⁸ has the ~~above-mentioned~~ same meaning as R¹⁰), hydroxy group, nitro group, cyano group, formyl group, formamide group, amino group, C₁₋₆ alkylamino group, di-C₁₋₆ alkylamino group, C₁₋₆ alkylcarbonylamino group, C₁₋₆ alkylsulfonylamino group, aminocarbonyl group, C₁₋₆ alkylaminocarbonyl group, di-C₁₋₆

alkylaminocarbonyl group, C₁₋₆ alkylcarbonyl group, C₁₋₆ alkoxy carbonyl group; aminosulfonyl group, C₁₋₆ alkylsulfonyl group, carboxy group or C₆₋₁₄ arylcarbonyl group); A is 5-, 6- or 7-member ring fused with benzene ring (wherein the 5-, 6- or 7-member ring may be arbitrarily substituted with 1 to 6 R²¹ wherein R²¹ has the same meaning as R¹⁰, and when a plurality of R²¹ are present, they may be identical or different from each other), as constituent atom of the ring, oxygen atom, nitrogen atom or sulfur atom may be contained in the number of 1 to 3 alone or in a combination thereof, the number of unsaturated bond in the ring is 1, 2 or 3 including an unsaturated bond of the benzene ring to be fused, carbon atoms constituting the ring may be carbonyl or thiocarbonyl.

2. (Currently Amended) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 1, wherein A is



wherein R¹¹ and R¹² are independently of each other hydrogen atom, C₁₋₆ alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), hydroxy group, C₆₋₁₄ aryl group, C₂₋₉ heteroaryl group (wherein each of the aryl group or heteroaryl group may be arbitrarily substituted with 1 to 3 R¹⁹ wherein R¹⁹ has the same meaning as R¹⁰), C₁₋₆ alkylaminocarbonyl group, di-C₁₋₆ alkylaminocarbonyl group, C₁₋₆ alkylcarbonyl group, C₃₋₈ cycloalkylcarbonyl group, C₁₋₆ alkoxy carbonyl group, C₁₋₆ alkylsulfonyl group, carboxy group, C₆₋₁₄ arylcarbonyl group or C₂₋₉ heteroarylcarbonyl group), C₆₋₁₄ aryl group, C₂₋₉

heteroaryl group (wherein each of the aryl group or heteroaryl group may be arbitrarily substituted with 1 to 3 R^{19} wherein R^{19} has the same meaning as R^{10}), C_{1-6} alkylaminocarbonyl group, di- C_{1-6} alkylaminocarbonyl group, C_{1-6} alkylcarbonyl group, C_{3-8} cycloalkylcarbonyl group, C_{1-6} alkoxycarbonyl group, C_{1-6} alkylsulfonyl group, C_{6-14} arylsulfonyl group, C_{2-9} heteroarylsulfonyl group (wherein each of the arylsulfonyl group or heteroarylsulfonyl group may be arbitrarily substituted with 1 to 3 R^{19} wherein R^{19} has the same meaning as R^{10}), carboxy group, C_{6-14} arylcarbonyl group, C_{2-9} heteroarylcarbonyl group (wherein each of the arylcarbonyl group or heteroarylcarbonyl group may be arbitrarily substituted with 1 to 3 R^{19} wherein R^{19} has the same meaning as R^{10}), R^{13} , R^{14} , R^{15} and R^{16} are independently of each other hydrogen atom, halogen atom, C_{1-6} alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, C_{1-6} alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), amino group, hydroxy group, C_{6-14} aryl group, C_{2-9} heteroaryl group (wherein each of the aryl group or heteroaryl group may be arbitrarily substituted with 1 to 3 R^{20} wherein R^{20} has the same meaning as R^{10}), C_{1-6} alkylaminocarbonyl group, di- C_{1-6} alkylaminocarbonyl group, C_{1-6} alkylcarbonyl group, C_{3-8} cycloalkylcarbonyl group, C_{1-6} alkoxycarbonyl group, C_{1-6} alkylsulfonyl group, carboxy group, C_{6-14} arylcarbonyl group or C_{2-9} heteroarylcarbonyl group), C_{1-6} alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom, (wherein the alkoxy group may be arbitrarily substituted with halogen atom), carboxy group, amino group, hydroxy group, C_{6-14} aryl group or C_{2-9} heteroaryl group (wherein each of the aryl group or heteroaryl group may be arbitrarily substituted with 1 to 3 R^{20} wherein R^{20} has the same meaning as R^{10}), C_{1-6} thioalkoxy group (wherein the thioalkoxy group may be arbitrarily substituted with halogen atom, C_{1-6} alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), carboxy group, hydroxy group, C_{6-14} aryl group or C_{2-9} heteroaryl group (wherein each of the aryl group or heteroaryl

group may be arbitrarily substituted with 1 to 3 R^{20} wherein R^{20} has the same meaning as R^{10}), hydroxy group, C_{6-14} aryl group or C_{2-9} heteroaryl group (wherein each of the aryl group or heteroaryl group may be arbitrarily substituted with 1 to 3 R^{20} wherein R^{20} has the same meaning as R^{10}), C_{1-6} alkylcarbonyloxy group, nitro group, cyano group, formyl group, formamide group, amino group, sulfonyl group, C_{1-6} alkylamino group, di- C_{1-6} alkylamino group, C_{6-14} arylamino group, C_{2-9} heteroaryl amino group (wherein each of the aryl amino group or heteroaryl amino group may be arbitrarily substituted with 1 to 3 R^{20} wherein R^{20} has the same meaning as R^{10}), C_{1-6} alkylcarbonyloxyamino group, C_{1-6} alkylsulfonylamino group, aminocarbonyl group, C_{1-6} alkylaminocarbonyl group, di- C_{1-6} alkylaminocarbonyl group, C_{1-6} alkylcarbonyl group, C_{6-14} arylcarbonyl group, C_{2-9} heteroarylcarbonyl group (wherein each of the arylcarbonyl group or heteroarylcarbonyl group may be arbitrarily substituted with 1 to 3 R^{20} wherein R^{20} has the same meaning as R^{10}), C_{1-6} alkoxycarbonyl group, aminosulfonyl group, C_{1-6} alkylsulfonyl group, C_{6-14} arylsulfonyl group, C_{2-9} heteroarylsulfonyl group (wherein each of the arylsulfonyl group or heteroarylsulfonyl group may be arbitrarily substituted with 1 to 3 R^{20} wherein R^{20} has the same meaning as R^{10}), carboxy group, sulfonyl group or C_{2-9} heterocyclyl group (wherein the heterocyclyl group may be arbitrarily substituted with halogen atom, C_{1-6} alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, C_{1-6} alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), amino group, carboxy group or hydroxy group), C_{1-6} alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), C_{6-14} aryl group, C_{2-9} heteroaryl group (wherein each of the aryl group or heteroaryl group may be arbitrarily substituted with 1 to 3 R^{20} wherein R^{20} has the ~~above-mentioned~~ same meaning as R^{10}), hydroxy group, nitro group, cyano group, formyl group, formamide group, amino group, C_{1-6} alkylamino group, di- C_{1-6} alkylamino group, C_{1-6} alkylcarbonylamino group, C_{1-6} alkylsulfonylamino group, aminocarbonyl group, C_{1-6} alkylaminocarbonyl group, di- C_{1-6}

alkylaminocarbonyl group, C₁₋₆ alkylcarbonyl group, C₁₋₆ alkoxy carbonyl group, aminosulfonyl group, C₁₋₆ alkylsulfonyl group, carboxy group or C₆₋₁₄ arylcarbonyl group), X is O, S, SO or SO₂.

3. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 2, wherein R¹ and R² are methyl group, R³ is hydroxy group, and R⁴ is hydrogen atom.

4. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 3, wherein R⁵ is hydrogen atom, m is an integer of 0 to 3 and n is an integer of 0 to 2.

5. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 4, wherein V is a single bond.

6. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 5, wherein m is an integer of 1 to 3, n is 0, and R⁶ is C₆₋₁₄ aryl group wherein the aryl group may be arbitrarily substituted with 1 to 3 R¹⁸ wherein R¹⁸ has the same meaning as R¹⁰.

7. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 6, wherein m is 2.

8. (Currently Amended) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 7, wherein R⁶ is C₆₋₁₄ aryl group wherein the aryl group may be arbitrarily substituted with 1 to 3 halogen atom or amino group, when and when a plurality of substituents are present, they may be identical or different from each other.

9. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 5, wherein m is an integer of 1 to 3, n is 0, and R⁶ is C₂₋₉ heteroaryl group wherein the heteroaryl group may be arbitrarily substituted with 1 to 3 R¹⁸ wherein R¹⁸ has the same meaning as R¹⁰.

10. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 9, wherein m is 2.

11. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 10, wherein R⁶ is 2-pyridyl group, 3-pyridyl group or 4-pyridyl group.

12. (Currently Amended) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 5, wherein m is an integer of 1 to 3, n is 0, and R⁶ is C₂₋₄ alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), amino group, carboxy group or hydroxy group), C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), amino group, carboxy group or hydroxy group), C₃₋₈ cycloalkyl group, C₃₋₈ cycloalkenyl group (wherein the cycloalkyl group or cycloalkenyl group may be arbitrarily substituted with halogen atom, C₁₋₆ alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), amino group, carboxy group or hydroxy group), C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), amino group, carboxy group or hydroxy group), or C₂₋₉ hetecyclyl group (wherein the heterocyclyl group may be arbitrarily substituted with halogen atom, C₁₋₆ alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), amino group, carboxy group or hydroxy group), C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), hydroxy group or amino group).

13. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 12, wherein m is 2.

14. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 13, wherein R^6 is n-propyl group, i-propyl group, c-pentyl group, c-hexyl group, 1-c-pentenyl group, 2-c-pentenyl group, 3-c-pentenyl group, 1-c-hexenyl group, 2-c-hexenyl group or 3-c-hexenyl group.

15. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 4, wherein V is CR^7R^8 .

16. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 15, wherein R^7 is hydroxy group, C_{1-6} alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, C_{1-6} alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), amino group, carboxy group or hydroxy group), C_{1-6} alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), C_{1-6} alkylamino group, di- C_{1-6} alkylamino group, or carboxy group, and R^8 is hydrogen atom or C_{1-6} alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, C_{1-6} alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), amino group, carboxy group or hydroxy group), or R^7 and R^8 together are =O or =S.

17. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 16, wherein R^7 is hydroxy group, C_{1-6} alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, hydroxy group or carboxy group) or carboxy group, and R^8 is hydrogen atom or C_{1-6} alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, hydroxy group or carboxy group), or R^7 and R^8 together are =O.

18. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 17, wherein R^7 is hydroxy group, and R^8 is hydrogen atom.

19. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 15, wherein m is an integer of 1 to 2, n is 0, and R^6 is C_{6-14} aryl group or C_{2-9} heteroaryl wherein each of the aryl group or heteroaryl group may be arbitrarily substituted with 1 to 3 R^{18} wherein R^{18} has the same meaning as R^{10} .

20. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 19, wherein R^7 is hydroxy group, C_{1-6} alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, C_{1-6} alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), amino group, carboxy group or hydroxy group), C_{1-6} alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), C_{1-6} alkylamino group, di- C_{1-6} alkylamino group, or carboxy group, and R^8 is hydrogen atom or C_{1-6} alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, C_{1-6} alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), amino group, carboxy group or hydroxy group), or R^7 and R^8 together are =O or =S.

21. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 20, wherein R^7 is hydroxy group, C_{1-6} alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, hydroxy group or carboxy group) or carboxy group, and R^8 is hydrogen atom or C_{1-6} alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, hydroxy group or carboxy group), or R^7 and R^8 together are =O.

22. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 21, wherein R^7 is hydroxy group, and R^8 is hydrogen atom.

23. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 22, wherein m is 1, n is 0, and R⁶ is C₆₋₁₄ aryl group wherein the aryl group may be arbitrarily substituted with 1 to 3 halogen atom or amino group, when and when a plurality of substituents are present, they may be identical or different from each other.

24. (Currently Amended) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 15, wherein m is an integer of 1 to 2, n is 0, and R⁶ is C₁₋₄ alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), amino group, carboxy group or hydroxy group), C₃₋₈ cycloalkyl group, C₃₋₈ cycloalkenyl group (wherein the cycloalkyl group or cycloalkenyl group may be arbitrarily substituted with halogen atom, C₁₋₆ alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), amino group, carboxy group or hydroxy group), C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), amino group, carboxy group or hydroxy group), or C₂₋₉ hetecyclyl group (wherein the heterocyclyl group may be arbitrarily substituted with halogen atom, C₁₋₆ alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), amino group, carboxy group or hydroxy group), C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), amino group, carboxy group or hydroxy group).

25. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 24, wherein R⁷ is hydroxy group, C₁₋₆ alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, C₁₋₆ alkoxy group (wherein C₁₋₆ alkoxy group may be arbitrarily substituted with halogen atom), amino group, carboxy group or hydroxy group), C₁₋₆ alkoxy group (wherein C₁₋₆ alkoxy group may be arbitrarily

substituted with halogen atom), C₁₋₆ alkylamino group, di-C₁₋₆ alkylamino group, or carboxy group, and R⁸ is hydrogen atom or C₁₋₆ alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, C₁₋₆ alkoxy group (wherein C₁₋₆ alkoxy group may be arbitrarily substituted with halogen atom), amino group, carboxy group or hydroxy group), or R⁷ and R⁸ together are =O or =S.

26. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 25, wherein R⁷ is hydroxy group, C₁₋₆ alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, hydroxy group or carboxy group) or carboxy group, and R⁸ is hydrogen atom or C₁₋₆ alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, hydroxy group or carboxy group), or R⁷ and R⁸ together are =O.

27. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 26, wherein R⁷ is hydroxy group, and R⁸ is hydrogen atom.

28. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 27, wherein R⁶ is n-propyl group, i-propyl group, c-pentyl group, c-hexyl group, 1-c-pentenyl group, 2-c-pentenyl group, 3-c-pentenyl group, 1-c-hexenyl group, 2-c-hexenyl group or 3-c-hexenyl group.

29. (Currently Amended) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 15, wherein R⁷ and R⁸ together are =O or =S, and R⁶ is amino group, C₁₋₆ alkylamino group, di-C₁₋₆ alkylamino group, C₆₋₁₄ arylamino group, C₂₋₉ heteroaryl amino (wherein each of the aryl amino group or heteroaryl amino group may be arbitrarily substituted with 1 to 3 R¹⁸ wherein R¹⁸ has the same meaning as R¹⁰), or C₂₋₉ heterocyclyl group (wherein the heterocyclyl group may be arbitrarily substituted with halogen atom, C₁₋₆ alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with

halogen atom), amino group, carboxy group or hydroxy group), C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), amino group, carboxy group or hydroxy group).

30. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 4, wherein V is NR⁹.

31. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 30, wherein m is an integer of 1 to 3, n is 0, and R⁶ is C₆₋₁₄ aryl group or C₂₋₉ heteroaryl wherein each of the aryl group or heteroaryl group may be arbitrarily substituted with 1 to 3 R¹⁸ wherein R¹⁸ has the same meaning as R¹⁰.

32. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 31, wherein m is 2.

33. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 30, wherein m is an integer of 1 to 3, n is 0 and R⁶ is hydrogen atom, C₂₋₄ alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), amino group, carboxy group or hydroxy group), C₃₋₈ cycloalkyl group, C₃₋₈ cycloalkenyl group (wherein the cycloalkyl group or cycloalkenyl group may be arbitrarily substituted with halogen atom, C₁₋₆ alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), amino group, carboxy group or hydroxy group), C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), amino, carboxy group or hydroxy group), or C₂₋₉ heterocyclyl group (wherein the heterocyclyl may be arbitrarily substituted with halogen atom, C₁₋₆ alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), amino group, carboxy group

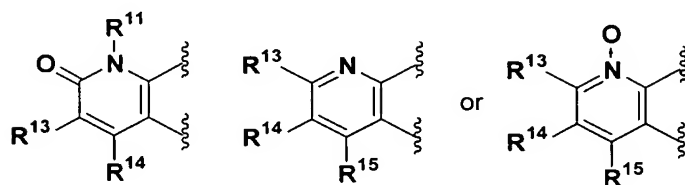
or hydroxy group), C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), amino group, carboxy group or hydroxy group).

34. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 33, wherein m is 2.

35. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 3, which is the compound of formula (I).

36. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 3, which is the compound of formula (II).

37. (Previously Presented) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 8, wherein the ring structure of A is



wherein R¹¹, R¹³, R¹⁴ and R¹⁵ have the above-mentioned meanings.

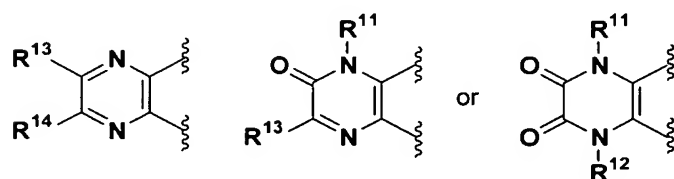
38. (Currently Amended) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 37, wherein R¹¹ is hydrogen atom or C₁₋₆ alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), amino group or hydroxy group), and R¹³, R¹⁴ and R¹⁵ are independently of each other hydrogen atom, halogen atom, C₁₋₆ alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom) or hydroxy group), C₁₋₆ cycloalkyl group (wherein the cycloalkyl group may be arbitrarily substituted with halogen atom, C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), amino group or hydroxy group), C₁₋₆ ~~alkoxyl~~ alkoxy group (wherein the ~~alkoxyl~~ alkoxy group may be arbitrarily substituted with

halogen atom, amino group, C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom) or hydroxy group), C₁₋₆ alkylcarbonyl group, aminocarbonyl group, amino group, carboxy group or cyano group.

39. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 38, wherein R¹¹ is hydrogen atom or C₁₋₆ alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, amino group or hydroxy group), and R¹³, R¹⁴ and R¹⁵ are independently of each other hydrogen atom, halogen atom, C₁₋₆ alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, amino group or hydroxy group), carboxy group, amino group or cyano group.

40. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 39, wherein R¹¹ is hydrogen atom, R¹³ is hydrogen atom, halogen atom, carboxy group or C₁₋₆ alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, amino group or hydroxy group), R¹⁴ is hydrogen atom, and R¹⁵ is hydrogen atom, halogen atom or C₁₋₆ alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, amino group or hydroxy group).

41. (Currently Amended) The benzopyran derivative or pharmaceutically acceptable salt thereof according to ~~claim 8, 11, 14, 23, 28 or 35~~ claim 8, wherein the ring structure of A is



wherein R¹¹, R¹², R¹³ and R¹⁴ have the above-mentioned meanings.

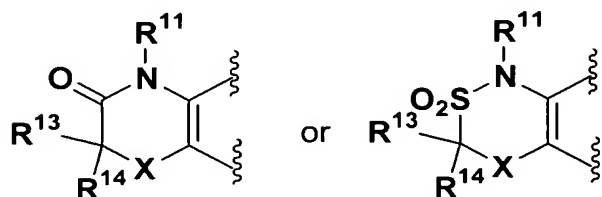
42. (Previously Presented) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 41, wherein R¹¹ and R¹² are independently of each other hydrogen atom or C₁₋₆ alkyl group (wherein the alkyl group may be arbitrarily

substituted with halogen atom, C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), amino group or hydroxy group), and R¹³ and R¹⁴ are independently of each other hydrogen atom, halogen atom, C₁₋₆ alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, amino group, C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom) or hydroxy group), C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom, amino group, C₁₋₆ alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), or hydroxy group), C₁₋₆ alkylcarbonyl group, amino group or cyano group.

43. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 42, wherein R¹¹ and R¹² are independently of each other hydrogen atom or C₁₋₆ alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, amino group or hydroxy group), and R¹³ and R¹⁴ are independently of each other hydrogen atom, halogen atom, C₁₋₆ alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, amino group or hydroxy group), amino group or cyano group.

44. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 43, wherein R¹¹, R¹², R¹³ and R¹⁴ are hydrogen atom.

45. (Previously Presented) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 8, wherein the ring structure of A is



wherein R¹¹, R¹³ and R¹⁴ have the above-mentioned meanings.

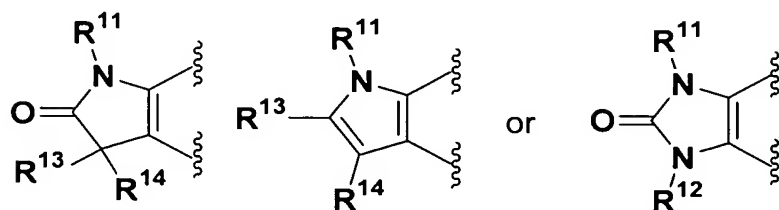
46. (Original) The benzopyran derivative or pharmaceutically acceptable salt

thereof according to claim 45, wherein R^{11} is hydrogen atom or C_{1-6} alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, C_{1-6} alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), amino group or hydroxy group), R^{13} and R^{14} are independently of each other hydrogen atom, halogen atom, C_{1-6} alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, amino group, C_{1-6} alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom) or hydroxy group), C_{1-6} alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom, amino group, C_{1-6} alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), or hydroxy group), amino group or cyano group, and X is O, S, SO or SO_2 .

47. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 46, wherein R^{11} is hydrogen atom or C_{1-6} alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, amino group or hydroxy group), R^{13} and R^{14} are independently of each other hydrogen atom, halogen atom or C_{1-6} alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, amino group or hydroxy group), and X is O.

48. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 47, wherein R^{11} is hydrogen atom or C_{1-6} alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, amino group or hydroxy group), R^{13} and R^{14} are hydrogen atom, and X is O.

49. (Previously Presented) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 8, wherein the ring structure of A is



wherein R^{11} , R^{12} , R^{13} and R^{14} have the above-mentioned meanings.

50. (Original) The benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 49, wherein R^{11} and R^{12} are independently of each other hydrogen atom or C_{1-6} alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, C_{1-6} alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), C_{1-6} aryl group (wherein the aryl group may be arbitrarily substituted with halogen atom, hydroxy group or C_{1-6} alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom))), amino group or hydroxy group), and R^{13} and R^{14} are independently of each other hydrogen atom, halogen atom, C_{1-6} alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, amino group, C_{1-6} alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom) or hydroxy group), C_{1-6} alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom, amino group, C_{1-6} alkoxy group (wherein the alkoxy group may be arbitrarily substituted with halogen atom), or hydroxy group), amino group or cyano group.

51. (Currently Amended) The benzopyran derivative or pharmaceutically acceptable salt thereof ~~according~~ according to claim 50, wherein R^{11} and R^{12} are independently of each other hydrogen atom or C_{1-6} alkyl group (wherein the alkyl group may be arbitrarily substituted with halogen atom, amino group or hydroxy group), and R^{13} and R^{14} are hydrogen atom.

52. (Original) A benzopyran derivative or pharmaceutically acceptable salt thereof which is 2,2,7,9-tetramethyl-4-[(2-phenylethyl)amino]-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol, 2,2,7-trimethyl-4-[(2-phenylethyl)amino]-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol, 3-hydroxy-2,2,9-trimethyl-4-[(2-phenylethyl)amino]-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-7-carbonitrile, 3-hydroxy-2,2,9-trimethyl-4-[(2-phenylethyl)amino]-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-7-carboxamide, {3-hydroxy-2,2,9-trimethyl-4-[(2-phenylethyl)amino]-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-7-yl} ethanone, 3,3-dimethyl-1-[(2-phenylethyl)amino]-2,3-dihydro-1*H*-pyrano[3,2-*f*]quinolin-2-ol, 7-hydroxymethyl-2,2,9-trimethyl-4-[(2-phenylethyl)amino]-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol, 3-hydroxy-2,2,9-trimethyl-4-[(2-phenylethyl)amino]-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-carboxylic acid, 7-chloro-2,2,9-trimethyl-4-[(2-phenylethyl)amino]-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol, 4-(benzylamino)-7-chloro-2,2,9-trimethyl-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol, 7-chloro-4-{{2-(1,3-benzodioxol-5-yl)methyl}amino}-2,2,9-trimethyl-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol, 7-chloro-2,2,9-trimethyl-4-[(3-phenylpropyl)amino]-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol, 7-chloro-4-{{2-(4-fluorophenyl)ethyl}amino}-2,2,9-trimethyl-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol, 7-chloro-4-{{2-(2-fluorophenyl)ethyl}amino}-2,2,9-trimethyl-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol, 7-chloro-4-{{2-(4-chlorophenyl)ethyl}amino}-2,2,9-trimethyl-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol, 4-{{2-(4-aminophenyl)ethyl}amino}-7-chloro-2,2,9-trimethyl-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol, 7-chloro-4-[(2-hydroxy-2-phenylethyl)amino]-2,2,9-trimethyl-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol, 7-chloro-4-(2-phenylbutyl)amino}-2,2,9-trimethyl-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol, 7-chloro-4-{{2-(1,3-benzodioxol-5-yl)ethyl}amino}-2,2,9-trimethyl-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol, 7-chloro-2,2,9-trimethyl-4-{{2-(1-piperidinyl)ethyl}amino}-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol, 7-chloro-2,2,9-trimethyl-4-{{2-(1-methyl-2-pyrrolidinyl)ethyl}amino}-3,4-dihydro-2*H*-

pyrano[2,3-g]quinolin-3-ol, 4-[(2-anilinoethyl)amino]-7-chloro-2,2,9-trimethyl-3,4-dihydro-2H-pyrano[2,3-g]quinolin-3-ol, 7-chloro-4-({2-[ethyl(3-methylphenyl)amino]ethyl} amino)-2,2,9-trimethyl-3,4-dihydro-2H-pyrano[2,3-g]quinolin-3-ol, 7-chloro-2,2,9-trimethyl-4-{{(1-ethyl-(R)-2-pyrrolidiny)methyl}amino}-3,4-dihydro-2H-pyrano[2,3-g]quinolin-3-ol, 7-chloro-2,2,9-trimethyl-4-[(2,2-diethoxyethyl)amino]-3,4-dihydro-2H-pyrano[2,3-g]quinolin-3-ol, 7-chloro-2,2,9-trimethyl-4-{{2-(3-thienyl)ethyl}amino}-3,4-dihydro-2H-pyrano[2,3-g]quinolin-3-ol, 7-chloro-4-[2-(1-pyrazolyethyl)amino]-2,2,9-trimethyl-3,4-dihydro-2H-pyrano[2,3-g]quinolin-3-ol, 7-chloro-4-{{2-(4-methylpyrazol-1-yl)ethylamino}-2,2,9-trimethyl-3,4-dihydro-2H-pyrano[2,3-g]quinolin-3-ol, 7-chloro-4-{{2-(4-chloropyrazol-1-yl)ethyl}amino}-2,2,9-trimethyl-3,4-dihydro-2H-pyrano[2,3-g]quinolin-3-ol, 7-chloro-4-[2-(2-pyridylethyl)amino]-2,2,9-trimethyl-3,4-dihydro-2H-pyrano[2,3-g]quinolin-3-ol, 7-chloro-4-[2-(3-pyridylethyl)amino]-2,2,9-trimethyl-3,4-dihydro-2H-pyrano[2,3-g]quinolin-3-ol, 7-chloro-4-[2-(4-pyridylethyl)amino]-2,2,9-trimethyl-3,4-dihydro-2H-pyrano[2,3-g]quinolin-3-ol, 7-chloro-4-ethylamino-2,2,9-trimethyl-3,4-dihydro-2H-pyrano[2,3-g]quinolin-3-ol, 7-chloro-4-isobutylamino-2,2,9-trimethyl-3,4-dihydro-2H-pyrano[2,3-g]quinolin-3-ol, 7-chloro-4-[(cyclopropylmethyl)amino]-2,2,9-trimethyl-3,4-dihydro-2H-pyrano[2,3-g]quinolin-3-ol, 7-chloro-4-isoamylamino-2,2,9-trimethyl-3,4-dihydro-2H-pyrano[2,3-g]quinolin-3-ol, 7-chloro-4-[2-(cyclopentylethyl)amino]-2,2,9-trimethyl-3,4-dihydro-2H-pyrano[2,3-g]quinolin-3-ol, 7-chloro-4-[2-(1-cyclopentenylethyl)amino]-2,2,9-trimethyl-3,4-dihydro-2H-pyrano[2,3-g]quinolin-3-ol, 7-chloro-2,2,9-trimethyl-4-[(1,4-dimethylpentyl)amino]-3,4-dihydro-2H-pyrano[2,3-g]quinolin-3-ol, 7-chloro-2,2,9-trimethyl-4-(pentylamino)-3,4-dihydro-2H-pyrano[2,3-g]quinolin-3-ol, 7-chloro-4-[(2-cyclohexylethyl)amino]-2,2,9-trimethyl-3,4-dihydro-2H-pyrano[2,3-g]quinolin-3-ol, 7-chloro-2,2,9-trimethyl-4-[(2-tetrahydro-2H-pyran-4-ylethyl)amino]-3,4-dihydro-2H-pyrano[2,3-g]quinolin-3-ol, 7-chloro-2,2,9-trimethyl-4-[(2-tetrahydro-2H-thiopyran-4-ylethyl)amino]-3,4-dihydro-2H-pyrano[2,3-g]quinolin-3-ol, 7-

chloro-4-([6-(4-chlorophenyl)-3-pyridinyl]methyl)amino)-2,2,9-trimethyl-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol, 4-[(2-benzofuranylmethyl)amino]-7-chloro-2,2,9-trimethyl-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol, 7-chloro-4-[(2-hydroxypentyl)amino]-2,2,9-trimethyl-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol, 7,7-dimethyl-9-[(2-phenylethyl)amino]-8,9-dihydro-7*H*-pyrano[2,3-*g*]quinoxalin-8-ol, {[2-(2-fluorophenyl)ethyl]amino}-7,7-dimethyl-8,9-dihydro-7*H*-pyrano[2,3-*g*]quinoxalin-8-ol, {[2-(4-fluorophenyl)ethyl]amino}-7,7-dimethyl-8,9-dihydro-7*H*-pyrano[2,3-*g*]quinoxalin-8-ol, 9-[(2-hydroxy-2-phenylethyl)amino]-7,7-dimethyl-8,9-dihydro-7*H*-pyrano[2,3-*g*]quinoxalin-8-ol, 7,7-dimethyl-9-(pentylamino)-8,9-dihydro-7*H*-pyrano[2,3-*g*]quinoxalin-8-ol, 2,3,7,7-tetramethyl-9-[(2-phenylethyl)amino]-8,9-dihydro-7*H*-pyrano[2,3-*g*]quinoxalin-8-ol, 2,3-diethyl-7,7-dimethyl-9-[(2-phenylethyl)amino]-8,9-dihydro-7*H*-pyrano[2,3-*g*]quinoxalin-8-ol, 3,7,7-trimethyl-2-phenyl-9-[(2-phenylethyl)amino]-8,9-dihydro-7*H*-pyrano[2,3-*g*]quinoxalin-8-ol, 2,7,7-trimethyl-3-phenyl-9-[(2-phenylethyl)amino]-8,9-dihydro-7*H*-pyrano[2,3-*g*]quinoxalin-8-ol, 3,7,7-trimethyl-9-[(2-phenylethyl)amino]-8,9-dihydro-7*H*-pyrano[2,3-*g*]quinoxalin-8-ol, 9-[(2-cyclohexylethyl)amino]-7,7-dimethyl-8,9-dihydro-7*H*-pyrano[2,3-*g*]quinoxalin-8-ol, 6,7-imidazolino-3,4-dihydro-2,2-dimethyl-4-(2'-phenylethylamino)2*H*-1-benzopyran-3-ol, 7-hydroxy-6,6-dimethyl-8-(2-phenylethylamino)-4,6,7,8-tetrahydro-1,5-dioxo-4-aza-anthracen-3-on, 7-hydroxy-4,6,6-trimethyl-8-(2-phenylethylamino)-4,6,7,8-tetrahydro-1,5-dioxo-4-aza-anthracen-3-on, 6,6-dimethyl-8-(2-phenylethylamino)-2,3,4,6,7,8-hexahydro-1,5-dioxo-4-aza-anthracen-7-ol, 7-hydroxy-6,6-dimethyl-8-(2-phenylethylamino)-7,8-dihydro-1*H*,6*H*-4,5-dioxo-1-aza-anthracen-2-on, 6,6-dimethyl-8-(2-phenylethylamino)-2,3,7,8-tetrahydro-1*H*,6*H*-4,5-dioxo-1-aza-anthracen-7-ol, 9-hydroxymethyl-2,2-dimethyl-4-[(2-phenylethyl)amino]-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol, 2,2,9-trimethyl-4-[(2-phenylethyl)amino]-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinoline-3,7-diol, 7-aminomethyl-2,2,9-trimethyl-4-[(2-phenylethyl)amino]-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol, 7-chloro-

2,2,9-trimethyl-5-oxy-4-[(2-phenylethyl)amino]-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol, 7-chloro-4- {[2-(4-fluorophenyl)ethyl]amino}-2,2,9-trimethyl-5-oxy-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol, 7-chloro-2,2,9-trimethyl-5-oxy-4-(pentylamino)-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol, 4- {[2-(fluorophenyl)ethyl]amino}-7-hydroxymethyl-2,2,9-trimethyl-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol or 2,2-dimethyl-4-[(2-phenylethyl)amino]-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol.

53. (Original) A benzopyran derivative or pharmaceutically acceptable salt thereof which is 2,2,7-trimethyl-4-[(2-phenylethyl)amino]-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol, 3,3-dimethyl-1-[(2-phenylethyl)amino]-2,3-dihydro-1*H*-pyrano[3,2-*f*]quinolin-2-ol, 7-hydroxymethyl-2,2,9-trimethyl-4-[(2-phenylethyl)amino]-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol, 7-chloro-2,2,9-trimethyl-4-[(2-phenylethyl)amino]-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol, 7-chloro-4- {[2-(4-fluorophenyl)ethyl]amino}-2,2,9-trimethyl-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol, 7-chloro-4- {[2-(2-fluorophenyl)ethyl]amino}-2,2,9-trimethyl-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol, 7-chloro-4- {[2-(4-chlorophenyl)ethyl]amino}-2,2,9-trimethyl-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol, 3-hydroxy-2,2,9-trimethyl-4-[2-(phenylethyl)amino]-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinoline-7carboxylic acid, 4- {[2-(4-aminophenyl)ethyl]amino}-7-chloro-2,2,9-trimethyl-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol, 7-chloro-4-[(2-hydroxy-2-phenylethyl)amino]-2,2,9-trimethyl-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol, 7-chloro-2,2,9-trimethyl-4- {[2-(1-piperidinyl) ethyl]amino}-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol, 7-chloro-4- {[2-(4-chloropyrazol-1-yl)ethyl]amino}-2,2,9-trimethyl-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol, 7-chloro-4-[2-(2-pyridylethyl)amino]-2,2,9-trimethyl-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol, 7-chloro-4-[2-(3-pyridylethyl)amino]-2,2,9-trimethyl-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol, 7-chloro-4-[2-(4-pyridylethyl)amino]-2,2,9-trimethyl-3,4-dihydro-2*H*-pyrano[2,3-*g*]quinolin-3-ol, 7-chloro-4-isoamylamino-2,2,9-trimethyl-3,4-dihydro-2*H*-

pyrano[2,3-g]quinolin-3-ol, 7-chloro-4-[2-(cyclopentylethyl)amino]-2,2,9-trimethyl-3,4-dihydro-2*H*-pyrano[2,3-g]quinolin-3-ol, 7-chloro-4-[2-(1-cyclopentenylethyl)amino]-2,2,9-trimethyl-3,4-dihydro-2*H*-pyrano[2,3-g]quinolin-3-ol, 7-chloro-2,2,9-trimethyl-4-(pentylamino)-3,4-dihydro-2*H*-pyrano[2,3-g]quinolin-3-ol, 7-chloro-4-[(2-cyclohexylethyl)amino]-2,2,9-trimethyl-3,4-dihydro-2*H*-pyrano[2,3-g]quinolin-3-ol, 7-chloro-4-[(2-hydroxypentyl)amino]-2,2,9-trimethyl-3,4-dihydro-2*H*-pyrano[2,3-g]quinolin-3-ol, 7,7-dimethyl-9-[(2-phenylethyl)amino]-8,9-dihydro-7*H*-pyrano[2,3-g]quinoxalin-8-ol, {[2-(2-fluorophenyl)ethyl]amino}-7,7-dimethyl-8,9-dihydro-7*H*-pyrano[2,3-g]quinoxalin-8-ol, {[2-(4-fluorophenyl)ethyl]amino}-7,7-dimethyl-8,9-dihydro-7*H*-pyrano[2,3-g]quinoxalin-8-ol, 9-[(2-hydroxy-2-phenylethyl)amino]-7,7-dimethyl-8,9-dihydro-7*H*-pyrano[2,3-g]quinoxalin-8-ol, 7,7-dimethyl-9-(pentylamino)-8,9-dihydro-7*H*-pyrano[2,3-g]quinoxalin-8-ol, 9-[(2-cyclohexylethyl)amino]-7,7-dimethyl-8,9-dihydro-7*H*-pyrano[2,3-g]quinoxalin-8-ol, 7-hydroxy-6,6-dimethyl-8-(2-phenylethylamino)-4,6,7,8-tetrahydro-1,5-dioxo-4-aza-anthracen-3-on, 7-hydroxy-4,6,6-trimethyl-8-(2-phenylethylamino)-4,6,7,8-tetrahydro-1,5-dioxo-4-aza-anthracen-3-one, 7-hydroxy-6,6-dimethyl-8-(2-phenylethylamino)-7,8-dihydro-1*H*,6*H*-4,5-dioxo-1-aza-anthracen-2-one, 9-hydroxymethyl-2,2-dimethyl-4-[(2-phenylethyl)amino]-3,4-dihydro-2*H*-pyrano[2,3-g]quinolin-3-ol, 2,2,9-trimethyl-4-[(2-phenylethyl)amino]-3,4-dihydro-2*H*-pyrano[2,3-g]quinoline-3,7-diol, 7-aminomethyl-2,2,9-trimethyl-4-[(2-phenylethyl)amino]-3,4-dihydro-2*H*-pyrano[2,3-g]quinolin-3-ol, 7-chloro-2,2,9-trimethyl-5-oxy-4-[(2-phenylethyl)amino]-3,4-dihydro-2*H*-pyrano[2,3-g]quinolin-3-ol, 7-chloro-4- {[2-(4-fluorophenyl)ethyl]amino}-2,2,9-trimethyl-5-oxy-3,4-dihydro-2*H*-pyrano[2,3-g]quinolin-3-ol, 7-chloro-2,2,9-trimethyl-5-oxy-4-(pentylamino)-3,4-dihydro-2*H*-pyrano[2,3-g]quinolin-3-ol, 4- {[2-(4-fluorophenyl)ethyl]amino}-7-hydroxymethyl-2,2,9-trimethyl-3,4-dihydro-2*H*-pyrano[2,3-g]quinolin-3-ol or 2,2-dimethyl-4-[(2-phenylethyl)amino]-3,4-dihydro-2*H*-pyrano[2,3-g]quinolin-3-ol.

54. (Previously Presented) A pharmaceutical comprising the benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 1 as an active ingredient.

55. (Previously Presented) A pharmaceutical for treating arrhythmia comprising the benzopyran derivative or pharmaceutically acceptable salt thereof according to claim 1 as an active ingredient.